1 **DIGITAL DATA PROCESSING SYSTEM INITIALIZATION OR CONFIGURATION (E.G., INITIALIZING, SET UP, CONFIGURATION, OR RESETTING)**
2 .Loading initialization program (e.g., booting, rebooting, warm booting, remote booting, BIOS, initial program load (IPL), bootstrapping)
100 **RECONFIGURATION (E.G., CHANGING SYSTEM SETTING)**
150 **MULTIPLE COMPUTER COMMUNICATION USING CRYPTOGRAPHY**
151 .Protection at a particular protocol layer
152 ..Application layer security
153 .Particular node (e.g., gateway, bridge, router, etc.) for directing data and applying cryptography
154 ..Including filtering based on content or address
155 .Central trusted authority provides computer authentication
156 ..By certificate
157 ...Chain or hierarchical certificates
158 ...Revocation or expiration
159 ..Including intelligent token
160 .Packet header designating cryptographically protected data
161 ..Data authentication
162 .Having particular address related cryptography
163 ..Multicast
164 .Security kernel or utility
165 ..File protection
166 ..Security levels
167 ..Object protection
168 .Particular communication authentication technique
169 ..Mutual entity authentication
170 ..Authentication of an entity and a message
171 ..Having key exchange
172 ..Intelligent token
173 ...Pre-loaded with certificate
174 ...Including particular multiplication or exponentiation circuit
175 ..By generation of certificate
176 ..Authentication by digital signature representation or digital watermark
177 ...Signature tree
178 ...Time stamp
179 ...Including generation of associated coded record
180 ..Generating specific digital signature type (e.g., blind, shared, or undeniable)
181 ..Message digest travels with message
182 **SYSTEM ACCESS CONTROL BASED ON USER IDENTIFICATION BY CRYPTOGRAPHY**
183 .Solely password entry (no record or token)
184 .PIN/password generator device
185 .Using record or token
186 ..Biometric acquisition
187 **COMPUTER PROGRAM MODIFICATION DETECTION BY CRYPTOGRAPHY**
188 **COMPUTER VIRUS DETECTION BY CRYPTOGRAPHY**
189 **DATA PROCESSING PROTECTION USING CRYPTOGRAPHY**
190 .Computer instruction/address encryption
191 .Upgrade/install encryption
192 .Having separate add-on board
193 .By stored data protection
194 .Tamper resistant
200 **SECURITY**
201 .Computer network
202 .Password
300 **COMPUTER POWER CONTROL**
310 .By external command
320 .Power conservation
321 ..Programmable calculator with power saving feature
322 ..By clock speed control (e.g., clock on/off)
323 ..Active/idle mode processing
324 ..By shutdown of only part of system
330 .Power sequencing
340 .Having power source monitoring
400 **SYNCHRONIZATION OF CLOCK OR TIMING SIGNALS, DATA, OR PULSES**
401 .Using delay

500 **CLOCK, PULSE, OR TIMING SIGNAL GENERATION OR ANALYSIS**
501 .Multiple or variable intervals or frequencies
502 .Counting, scheduling, or event timing
503 .Correction for skew, phase, or rate
600 **CLOCK CONTROL OF DATA PROCESSING SYSTEM, COMPONENT, OR DATA TRANSMISSION**
601 .Inhibiting timing generator or component

FOREIGN ART COLLECTIONS

FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

ELECTRIC SIGNAL MODIFICATION (E.G., SCRAMBLING) (380/9)
FOR 123 .Having cryptographic user or record actuated authentication (380/23)
FOR 125 ..Computer (380/25)